

## JP6194738A: PHOTOGRAPHING INDICATING DEVICE

**Purpose:** To provide a photographing indicating device for indicating so as to take a construction recording photograph, with which the construction condition is easy to be detected and which is easy to understand as a record of the construction, easily and securely.

**Constitution:** A map memory 51, which can store the map D1 written with the photographing number at each photographing position, the photographing indication D2 per each photographing number [P001]-[P003], identification item D3 per each photographing number [P001]-[P003], and a photographing indication memory 52, a header item memory 53 are provided. A key board 13, which can input the map call-out signal S1 or the header information corresponding to the identification item, is provided. A main control unit 20, which can display the map on the basis of the map call-out signal and which can display the photographing indication or the identification item in a liquid-crystal CRT on the basis of the photographing number, and a CRT image memory 28 and a CRT control unit 29 are provided. A writing control unit 26, which can write the header information input in the main control unit by the key board 13, is provided.

## JP10181241A: PERSONAL TRAVEL ALBUM MAKING SYSTEM

**Problem to be solved:** To realize the easy making of a personal travel album by a method wherein the photographing spot of an image is automatically recorded at photographing so as to lay out the photographed image at its photographing spot in an areal map containing its photographing spot together with the areal map.

**Solution:** This personal travel album making system is equipped with a photographing means A for shootingly recording respective photographed image in to the informations on photographing spots (concretely, their latitudes NS and longitudes EW) detected on the basis of radio signals W sent from an artificial satellite T, an image information reading means B, which reads respective photographed photographing images and the respective photographing spots corresponding to the respective images as shootingly recorded data and area snap lay out outputting means C, which outputs an album information by selectively outputting a predetermined areal map including a plurality of respective photographing spots on the basis of read shootingly recorded data so as to lay out the respective photographed images at the spots on the map corresponding to the photographing spots.

## JP10319494A: PICTURE DISPLAY DEVICE FOR DISPLAYING PHOTOGRAPHING PLACE

**Problem to be solved:** To obtain a picture display device capable of easily specifying a place where a picture is taken by displaying a map based on map information and obtaining a display for showing a photographing place, in a position corresponding to positional information.

**Solution:** A camera receives a GPS signal from a satellite, to obtain the positional information for showing the present position of the camera and this positional information is recorded on a loaded film 2. When a print for the picture is prepared in a DPE device 11, a positional information reading means 12 reads the positional information recorded on the film 2 and a map information reading means 14 reads the map information on an area including the place corresponding to the positional information, from a map information storage means 13. A printer 15 print-displays the map 9 of the area, based on the map information. A mark for showing the photographing place is overlapped and print-displayed in the position on the print-displayed map, corresponding to the positional information, based on the map information corresponding to each picture read from the film 2.

## JP4070729A: PHOTOGRAPHED IMAGE RETRIEVAL SYSTEM

**Purpose:** To facilitate image retrieval by providing a retrieval means which matches position data and position measurement data and retrieves a photographed image corresponding to position matching measurement data.

**Constitution:** The image photographed by a camera is recorded on a recording medium 26 such as a film or memory card and position measurement data obtained by a GPS receiver is led to the camera and recorded automatically on the recording medium 26 while making it correspond to the current photographed image. A retrieval device, on the other hand, displays a map by a map display means 26, and when a position on the map is inputted, position data is outputted; and the retrieval means 50 collates the position data with the position measurement data to retrieve the photographed image corresponding to the matching position measurement from a storing content of the recording medium 26. Consequently, a photography place name, etc., need not be inputted manually at the time of photography and on a keyboard, etc., for image retrieval, and image retrieval is set through easy operation and facilitated.

## JP11259502A: IMAGE INFORMATION DISPLAY DEVICE

**Problem to be solved:** To easily retrieve an image which is photographed while moving its photographing position or changing its photographing direction and also the photographing information by retrieving this information as a retrieval key to take out the image specification information that is coincident with the photographing information and then taking the image out of a recording medium based on the image specification information.

**Solution:** An operator gives a retrieval instruction of the photographing information to an image retrieval means 2 by means of a keyboard or mouse and by using the photographing information on the photographing time and place etc., as a retrieval key. The photographing place is designated by designating a position on a map, e.g. a town plan, etc., that is shown on a map information display means by means of a mouse. Then the means 2 takes an image specification information out of an image data base 5 with photographing information used as a retrieval key to specify an image that is coincident with the photographing information. Thus, the means 2 takes the image out of a recording medium 3 based on the image specification information and sends the image to an image reproduction means 1.

## JP9163203A: ELECTRONIC CAMERA SYSTEM WITH TRANSMITTING FUNCTION

**Problem to be solved:** To restrict communication charge by detecting originating position information from map information through the use of a global positioning system(GPS) and selecting a nearest distance personal computer communication access point.

**Solution:** An electronic camera 1 and an automatic access point detecting device (AP detecting device) 2 are respectively independent bodies and separated from a connection cable 4 at the time of photographing and a still picture is photographed only by an electronic camera 1. The electronic camera 1 gives an instruction for detecting a nearest personal computer communication access point to the AP detecting device 2. In the AP detecting device 2, a detecting part 13 receives plural kinds of satellite radio wave from a satellite antenna 16 and detects a present position through the user of GPS based on a received signal and map information of a compact disk 14. Then, the nearest personal computer communication access point which originates a call is specified and its information is transmitted to the electronic camera 1.

## JP9200666A: METHOD AND DEVICE FOR GENERATING AND DISPLAYING IMAGE WITH RECORDING POSITION

**Problem to be solved:** To provide method and device for generating and displaying image with which route guidance or the like due to the photographed image of real scenery is enabled by facilitating the reproduction of images, etc., or the registration of recording positions into an electronic map.

**Solution:** One piece or one frame of image is acquired from an image photographing part 11. At the same time, the direction of camera is detected from a camera direction detecting part 14 and the position of camera is detected from a camera position detecting part 13. A control part 16 relates these image, camera position and camera direction together with the date and time of that time point as one piece of data and preserves these data in a data preservation part 15. The data are stored by repeating this operation. Next, in the case of performing navigation, while previously possessing preserving these provided image data with recording position in the data preservation part 15, the control part 16 retrieves any image having the closest recording position and direction out of images preserved in the data preservation part 15 while referring to the camera position and direction provided from the camera position detecting part 13 and the camera direction detecting part 14 and displays that image on an image display part 12.

## JP8335034A: RETRIEVING DEVICE FOR PHOTOGRAPHIC IMAGE, AND DISPLAY METHOD FOR FILED STATE

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**Purpose:** To provide a retrieving device for photographic image and a display method for filed state in which, what degree of the number of images has been stored within a certain positional range, or in which unit and what degree of the number of images has been stored, and on what day they have been stored, can be quickly recognized.

**Constitution:** This device is formed out of memory means 31, 32, 33 for dividing and storing the image information into an image part, a character part, and a key word extracted from the character part, a map data base 40 for storing the map information, and a display means 22 for displaying the stored information and/or the edited information. It also has a control part 20 for taking the correspondence with the map data base 40, when the position information is inputted as key word from an operation part 21, on basis of the position information corresponding to the key word, displaying an icon to a predetermined area when the map is displayed on a display means 22 in a certain scale, retrieving the number of images photographed within the area corresponding to the icon from the memory means 31, 32, 33 on the displayed map, and displaying the number of images in conformation to the icon position.